

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
9 June 2005 (09.06.2005)

PCT

(10) International Publication Number
WO 2005/051534 A1

- (51) International Patent Classification⁷: B01J 23/36, 37/02, 31/02, C07C 6/04
- (21) International Application Number: PCT/EP2004/012098
- (22) International Filing Date: 26 October 2004 (26.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
MI2003A002321
27 November 2003 (27.11.2003) IT
- (71) Applicant (for all designated States except US):
POLIMERI EUROPA S.P.A. [IT/IT]; Via E. Fermi,
4, I-72100 Brindisi (IT).
- (72) Inventors; and
(75) Inventors/Applicants (for US only): QUERCI, Ce-
cilia [IT/IT]; Via Donizzetti, 41, I-28100 Novara (IT).
BOSETTI, Aldo [IT/IT]; Via C.F. Martiniana, 11, I-13100
Vercelli (IT). GUERRINI, Rinaldo [IT/IT]; Via Aosta,
7, I-28100 Novara (IT). PANELLA, Francesco [IT/IT];
Vicolo San Germano, 8, I-13030 Pertengo-Vercelli (IT).
RUSSO, Matteo [IT/IT]; Via Mulino Vecchio, I-28065
Cerano (IT).
- (74) Agents: DE GREGORI, Antonella et al.; Ing. Barzano
& Zanardo Milano S.p.A., Via Borgonuovo, 10, I-20121
Milan (IT).
- (81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.
- (84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: RHENIUM CATALYST ON A SILANIZED ALUMINA CARRIER AND ITS USE IN THE METATHESIS REAC-
TION OF OLEFINS

(57) Abstract: A process is described for the preparation of a heterogeneous catalyst containing rhenium as active component and an inert carrier medium. characterized in that said inert carrier is previously treated with a silanizing compound containing chlorine, before the laying of the active component on the carrier, and the activation of the heterogeneous catalyst takes place by means of thermal treatment followed by a rapid final cooling. The catalyst is particularly active in metathesis reactions of olefins.

WO 2005/051534 A1